



- Robust security without sacrificing performance
- Comprehensive support to IPv6
- Robust hybrid VPN (IPSec/SSL/2TP)
  - Zero-configuration remote access with EASY VPN
  - Support L2TP VPN on mobile device (iPhone and Android phone)
- ICSA Firewall, IPSec certification
- Content filter stops malware and Web threats
- Powerful Email security
- Non-stop Internet access with multiple WAN and 3G backups

## Security on a New Level

### - The Future Is Ahead. Stay Ahead with ZyXEL USG100-PLUS

As broadband quickly becomes a necessity in the business world facing network security threats, the breaches evolve into highly sophisticated attacks to paralyze networks and to steal sensitive information. In response to such attacks, small businesses have to meet the great challenge protecting their networks.

The ZyWALL USG100-PLUS is designed for small business to provide real-time inspection and multi-layer network protection to prevent the network from threats. The USG Series embodies Stateful Packet Inspection (SPI) Firewall, Anti-Virus (AV), Intrusion Detection and Prevention (IDP), Content Filtering, Anti-Spam and VPN (IPSec/SSL/L2TP) features in one box. In addition, the USG100-PLUS not only offers complete security license to fulfill your demand but also guarantees the continuous firmware upgrades to save your cost. Incorporating comprehensive security features in the connected devices, the USG100-PLUS safeguards your organization's customer and company records, intellectual properties as well as critical resources from both external and internal threats.

## Benefits

### Robust security without sacrificing performance

The ZyWALL USG100-PLUS is built with a powerful Integrated High-Performance Security architecture that provides real-time inspection to prevent networks from threats without sacrificing performance. Corporate networks are not only flawlessly secured but also get significant performance enhancements on productivity and efficiency since file loading, emailing and information searching applications are processed at higher speeds.



### Comprehensive IPv6 support smoothly connects future-ready networks

The ZyWALL USG100-PLUS is IPv6-ready today and is certified with "IPv6 Ready" gold logo. With IPv6 feature enabled, the USG100-PLUS ensures businesses with a smooth migration path from the IPv4-based networks to the full IPv6 infrastructure. It assigns IPv6 addresses to clients and passes the IPv6 traffics through the IPv4 environment. The USG100-PLUS supports dual-stack and IPv4 tunneling (6rd and 6to4 transition tunnel) implementations for Internet connectivity to access IPv6 applications.



#### EASY VPN reduces operation cost and time

Establishing a VPN tunnel is a good way to build secure connections among remote offices, branch offices and partners; however it is difficult for non-technical employees, such as sales people, to use because of complicated configuration. The ZyWALL USG100-PLUS is equipped with the "EASY VPN" solution to push configuration files to the VPN clients automatically; this eliminates the configuration efforts while securing the access at the same time. In addition, the USG100-PLUS supports L2TP VPN technology on iPhones, Android phones and many other mobile devices as L2TP VPN enables employees in remote places to connect to the headquarters with easy and free access.

#### Content filter for safer Web surfing

The World Wide Web has become the main target for network threats, since the Internet itself is a very effective malware delivery mechanism. With threats hidden directly in contents such as cookies, add-ons and root kits, it makes malware exceptionally difficult to detect.

The ZyWALL USG100-PLUS content filter solution provided by Blue Coat and Commtouch, the leading providers, reduces costs and extends protection by combining a comprehensive, integrated database featuring millions of URLs, IP addresses and domains. With the solution, the USG100-PLUS not only enables real-time protection that deters emerging Web threats including malware and phishing, but also blocks or monitors certain sites to maintain employee productivity.

#### Powerful Email security

The ZyWALL USG100-PLUS delivers industry-leading protection, powered by Commtouch, against spam, phishing and virus-laden emails. The extremely high performance of Commtouch technology comes from the unique recurrent pattern detection (RPD) mechanism that possesses its superior capability through analyzing millions of new patterns each day (24x7x365) to block all the associated messages real-time. In addition, the ZyWALL USG100-PLUS applies sender-based IP reputation to remove over 80% of unwanted mails and to take advantage of the zero-hour virus outbreak protection feature, which is capable of blocking or delaying suspicious messages hours before commercial anti-virus signatures are available.

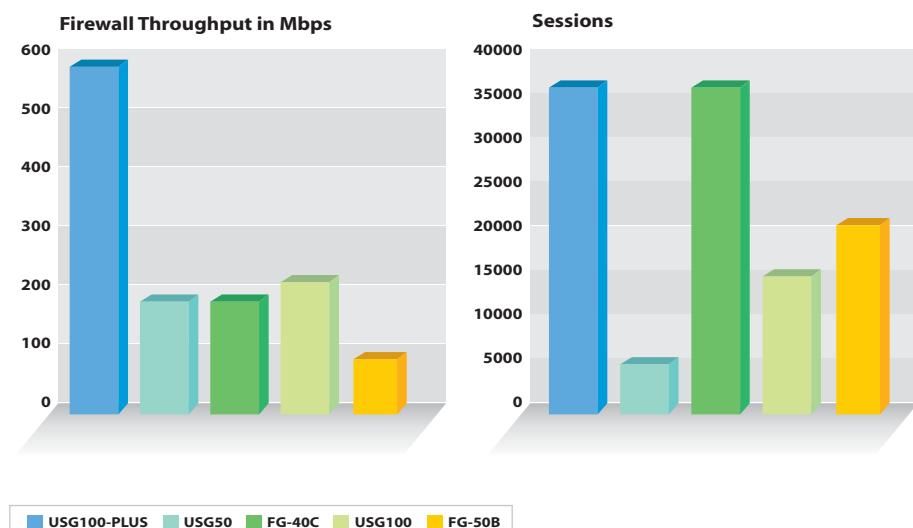
#### More 3G card support

The ZyWALL USG100-PLUS not only supports multiple WAN ports but also 3G networks through USB or PC cards. With 3G connections, the USG100-PLUS enables load sharing or failover to deliver highly reliable network connectivity; it also supports more 3G cards with generic driver to ensure excellent interoperability. Since the customers don't have to purchase specific 3G cards to save cost.

## Key Applications

#### High performance

The ZyXEL USG100-PLUS is built with a powerful Integrated High Performance Security architecture. It provides real-time inspection to prevent networks from threats without sacrificing performance. Its excellent performance delivers sufficient speed boost to meet all small business needs.



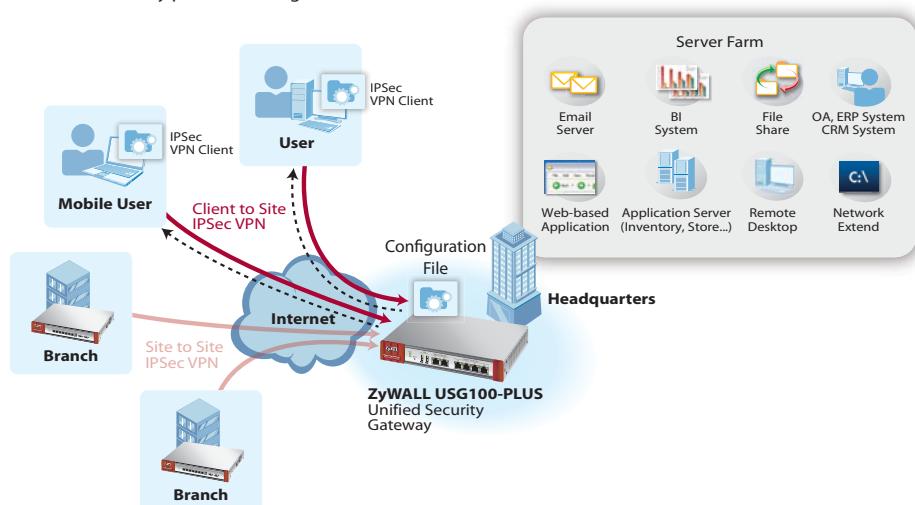
## EASY VPN — zero configuration remote access

When establishing VPN tunnels, it could be quite difficult for non-technical employees to use due to the complicated configuration.

The ZyWALL USG100-PLUS is equipped with the "EASY VPN" solution to push configuration files to the VPN clients automatically; this eliminates the configuration efforts while securing the access at the same time.

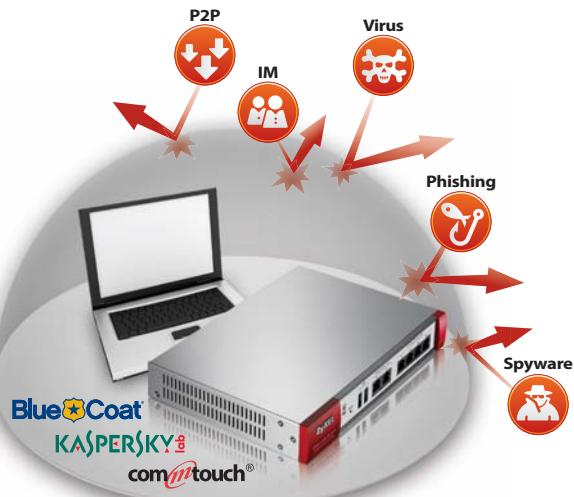
### Easy provisioning for ZyWALL IPSec VPN client

- USG automatically provides configuration file to the client.



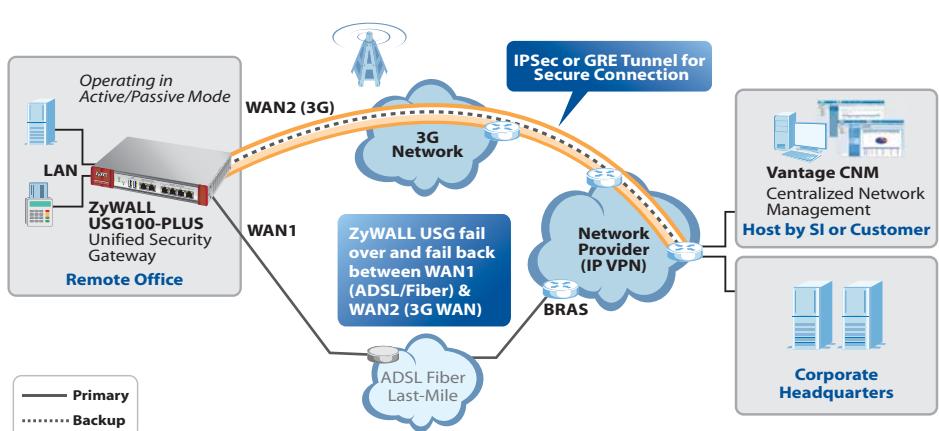
## Content Filter stops malware and Web threats

The ZyWALL USG100-PLUS Content Filter enables businesses to protect their users and networks from malware and abuse such as spyware, phishing attacks and inappropriate P2P or IM usage. It keeps office computers from getting infected by dangerous malware and comprehensively protects business network environments.



## Non-stop Internet access with multiple WAN and 3G backups

The ZyWALL USG100-PLUS supports not only WAN traffic load balancing to increase the overall network throughput but also flexible 3G backup as a WAN alternative to enhance network reliability.



## Specifications

Model	ZyWALL USG100-PLUS	
<b>Product Photo</b>		
<b>Hardware Specifications</b>		
<b>10/100/1000 Interfaces (Copper)</b>	4 x LAN/DMZ, 2 x WAN	
<b>USB Ports</b>	2	
<b>System Capacity &amp; Performance</b>		
<b>SPI Firewall Throughput<sup>*1</sup> (Mbps)</b>	600	
<b>VPN Throughput (AES)<sup>*2</sup> (Mbps)</b>	150	
<b>UTM Throughput (AV+IDP)<sup>*3</sup> (Mbps)</b>	30	
<b>Unlimited User Licenses</b>	Yes	
<b>Max. Sessions<sup>*4</sup></b>	40,000	
<b>New Session Rate</b>	1,000	
<b>Max. Concurrent IPSec VPN Tunnels</b>	50	
<b>Max. Concurrent SSL VPN Users</b>	25	
<b>Included SSL VPN Users</b>	2	
<b>Customizable Zone</b>	Yes	
<b>IPv6 Support</b>	Yes	
<b>Power Requirement</b>		
<b>Input Voltage</b>	100 - 240 V AC, 50/60 Hz, 1.2 A	
<b>Power Rating</b>	17 W Max	
<b>Physical Specifications</b>		
<b>Item</b>	<b>Dimensions (WxDxH)(mm/in.)</b>	242 x 167 x 35.5/9.53 x 6.57 x 1.40
	<b>Weight (kg/lb.)</b>	1.2/2.65
<b>Packing</b>	<b>Dimensions (WxDxH)(mm/in.)</b>	375 x 238 x 108/14.76 x 9.37 x 4.25
	<b>Weight (kg/lb.)</b>	2.4/5.29
<b>Environmental Specifications</b>		
<b>Operating Environment</b>	<b>Temperature</b>	0°C to 40°C/32°F to 104°F
	<b>Humidity</b>	5% to 90% (Non-condensing)
<b>Storage Environment</b>	<b>Temperature</b>	-30°C to 60°C/-22°F to 140°F

Note:

\*1: Testing Methodologies: Maximum performance based on RFC 2544 (UDP packets, 1,518 bytes).

\*2: VPN (AES) throughput measured using UDP traffic with 1,424 bytes packet size, based on RFC 2544.

\*3: UTM (AV+IDP) throughput measured using industry standard IXIA IxLoad test tool against HTTP protocol with 1,460 bytes packet size. Testing done with multiple flows.

\*4: Max sessions measured using industry standard IXIA IxLoad test tool.

## Features

### Firewall

- ICSA-certified firewall
- Routing and transparent (bridge) mode
- Zone-based access control list
- Stateful packet inspection
- User-aware policy enforcement
- SIP/H.323 NAT traversal
- ALG supports custom ports

### IPv6 Support

- IPv6 Ready gold logo certified
- Dual stack
- IPv4 tunneling (6rd and 6to4 transition tunnel)
- Host/Router/Firewall

### Virtual Private Network (VPN)

- ICSA-certified IPSec VPN
- Algorithm: AES/3DES/DES
- Authentication: SHA-1/MD5
- Key management: Manual key/IKE
- Perfect forward secrecy (DH groups) support 1, 2, 5
- IPSec NAT traversal
- Dead peer detection/relay detection
- PKI (X.509) certificate support
- Centralize VPN support
- Simple wizard support
- Auto reconnect VPN
- VPN HA (redundant remote VPN gateways)

### SSL VPN

- Clientless secure remote access
- Support reverse proxy mode and full tunnel mode
- Unified policy enforcement
- Supports two-factor authentication
- Customizable user portal

### Intrusion Detection and Prevention (IDP)

- Routing and transparent (bridge) mode
- Zone-based IDP inspection
- Customizable protection profile
- Protect over 2000 attack

## Features

### Intrusion Detection and Prevention (IDP)

- Automatic signature updates
- Custom signatures
- Protocol anomaly detection and protection
- Traffic anomaly detection and protection
- Flooding detection and protection
- DoS/DDoS protection

### Anti-Virus

- Support Kaspersky and ZyXEL Anti-Virus
- Stream-based Anti-Virus engine
- Zone base AV protection
- HTTP/FTP/SMTP/POP3/IMAP4 protocol support
- Automatic signature updates
- No file size limitation
- Blacklist/whitelist support

### Application Patrol

- Application, IM/P2P, stream base media, VoIP granular access control
- Detail access control of IM (chat, file transfer, video)
- Application and IM/P2P bandwidth control
- User authentication support
- IM/P2P signature auto update
- Support more than 15 catalogs IM and P2P
- Real-Time statistical reports
- Maximum/guaranteed bandwidth

### Anti-Spam

- Zone to zone protection
- Transparently intercept mail via SMTP/POP3 protocols
- POP3/SMTP port configurable
- Sender-based IP Reputation Filter
- Commtouch RPD Query
- Zero-hour Virus Outbreak Protection
- X-Header Support
- Blacklist/whitelist support
- Support DNSBL checking
- Spam tag support
- Statistics report

### Content Filtering (BlueCoat and Commtouch)

- Social networking control
- Web security—Security threat category (powered by BlueCoat)
- URL blocking, keyword blocking
- Profile base setting
- Exempt list (blacklist and whitelist)
- Blocks java applet, cookies and active X
- Dynamic URL filtering database (powered by BlueCoat and Commtouch)
- Unlimited user licenses support
- Customize warning messages and redirect URL

### Networking

- Routing mode/bridge mode/mixed mode
- Layer 2 port grouping
- Ethernet/PPPoE
- NAT/PAT
- Tagged VLAN (802.1Q)
- Virtual interface (alias interface)
- Policy-based routing (user-aware)
- Policy-based NAT (SNAT)
- Dynamic routing (RIP v1/v2, OSPF)
- DHCP client/server/relay
- Dynamic DNS support
- WAN Trunk more than 2 port
- Per host session limit
- Guaranteed bandwidth
- Maximum bandwidth
- Priority-bandwidth utilization

### Authentication

- Local user database
- Microsoft Windows active directory integrate
- External LDAP/RADIUS user database
- Xauth over RADIUS for IPsec VPN
- Forced user authentication (transparent authentication)
- IP/MAC address binding

### System Management

- Role-Based administration
- Multiple administrator login
- Multi-Lingual web GUI (HTTPS/HTTP)
- Object-based configuration
- Command line interface (console/web console/SSH/TELNET)
- SNMP v2c (MIB-II)
- System configuration rollback
- Firmware upgrade via FTP/FTP-TLS/web GUI

### Logging/Monitoring

- Comprehensive local logging
- Syslog (send to up to 4 servers)
- E-mail alert (send to up to 2 servers)
- Real-Time traffic monitoring
- Built-in daily report
- Advanced reporting (Vantage Report)

### Security Featured License (Optional)

- ZyXEL Anti-Virus
- Kaspersky Anti-Virus
- Intrusion Detection and Prevention (IDP)
- Blue Coat Content Filter
- Commtouch Content Filter
- Commtouch Anti-Spam
- SSL VPN tunnels upgrade

### Certification

- Emission (EMC)
- FCC Part15 (Class B)
- CE EMC (Class B)

## 3G Card Support

Please visit

[http://www.zyxel.com/products\\_services/smb](http://www.zyxel.com/products_services/smb_security_appliances_and_services.shtml)

[\\_security\\_appliances\\_and\\_services.shtml](http://www.zyxel.com/products_services/smb_security_appliances_and_services.shtml)

and find the following path:

ZyWALL Unified Security Gateways → USG product pages to see the 3G Card Compatibility List for supported USB devices.



Content Control  
from Blue Coat

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For more product information, visit us on the web at [www.ZyXEL.com](http://www.ZyXEL.com)



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